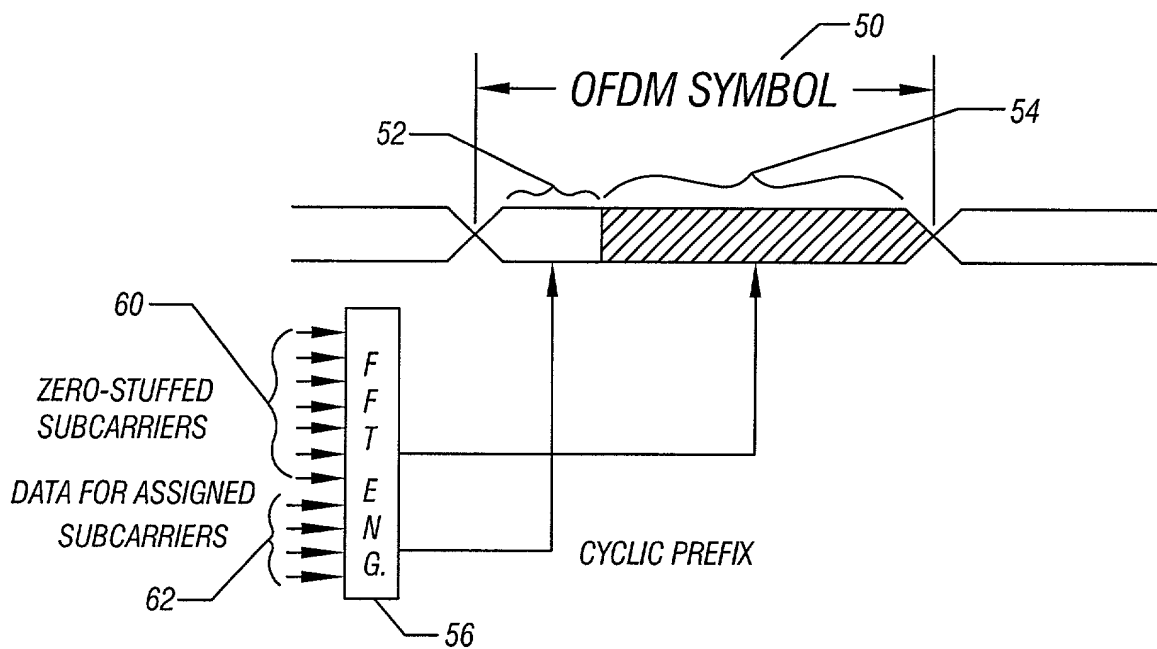
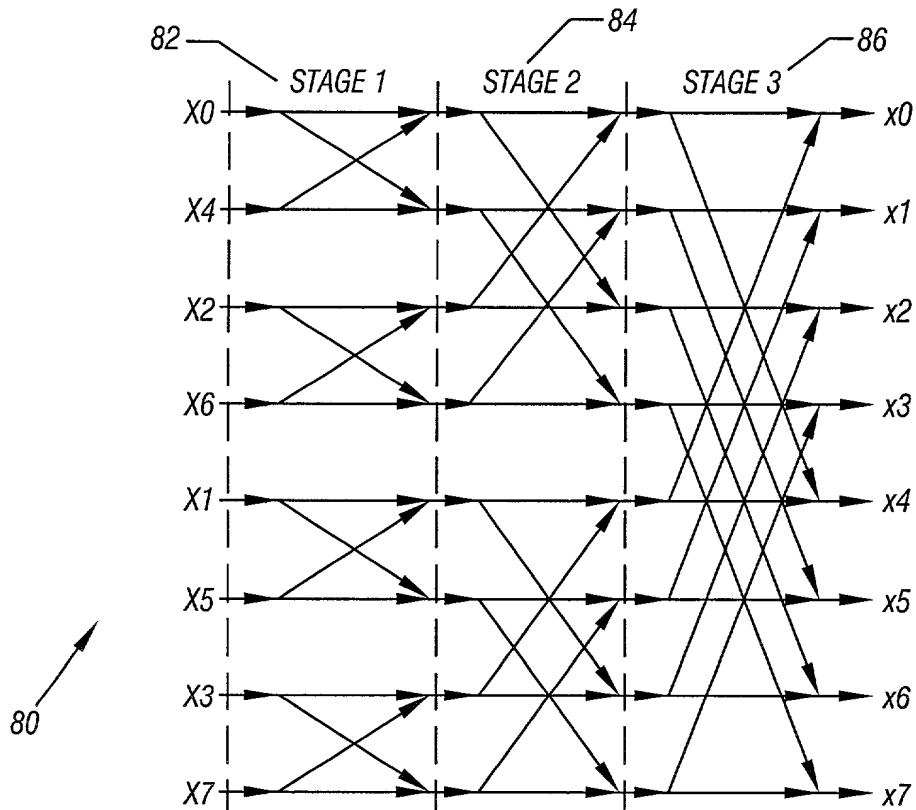


FIG. 1



**FIG. 2**  
**(PRIOR ART)**



**FIG. 3**  
**(PRIOR ART)**

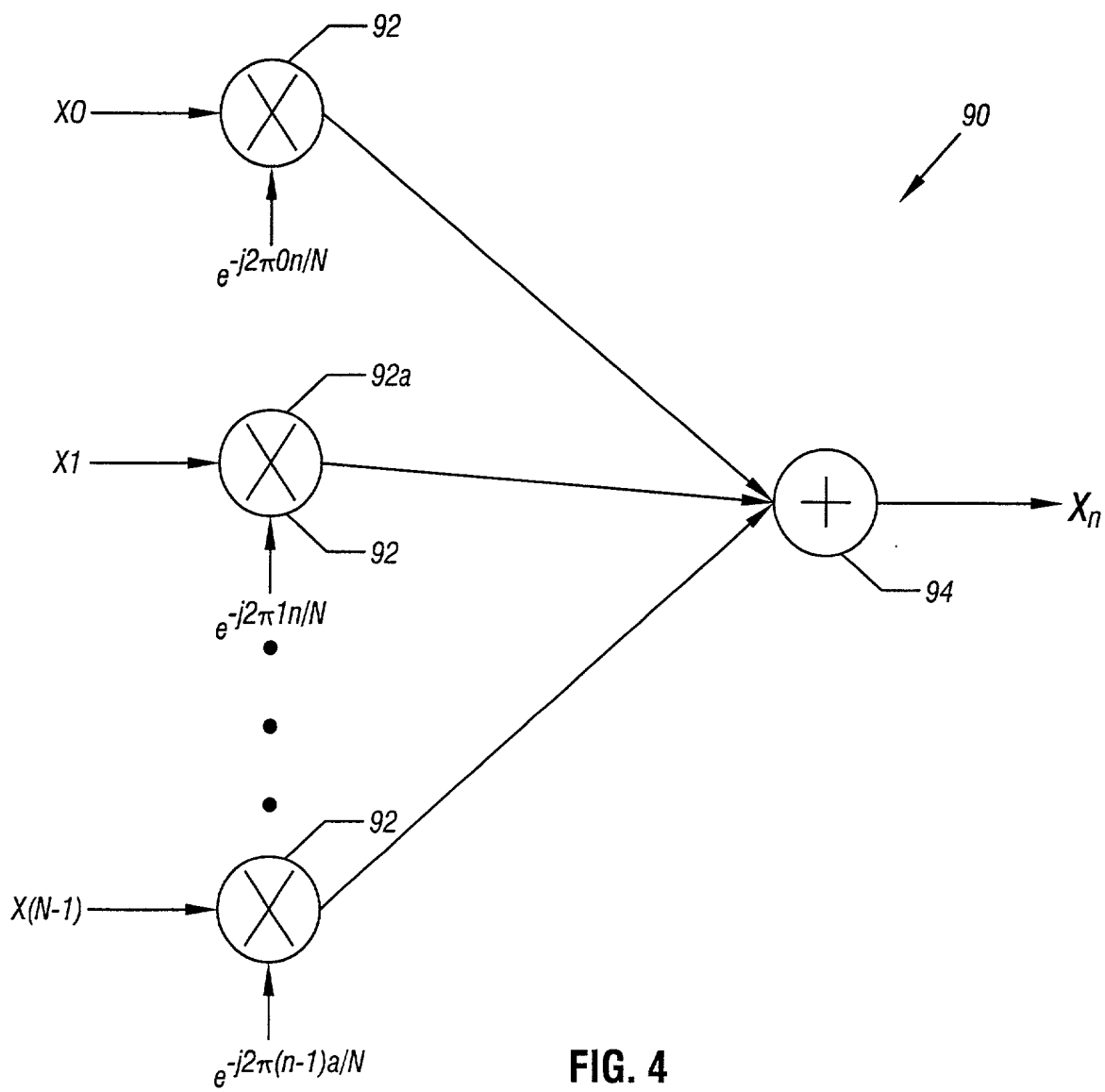


FIG. 4

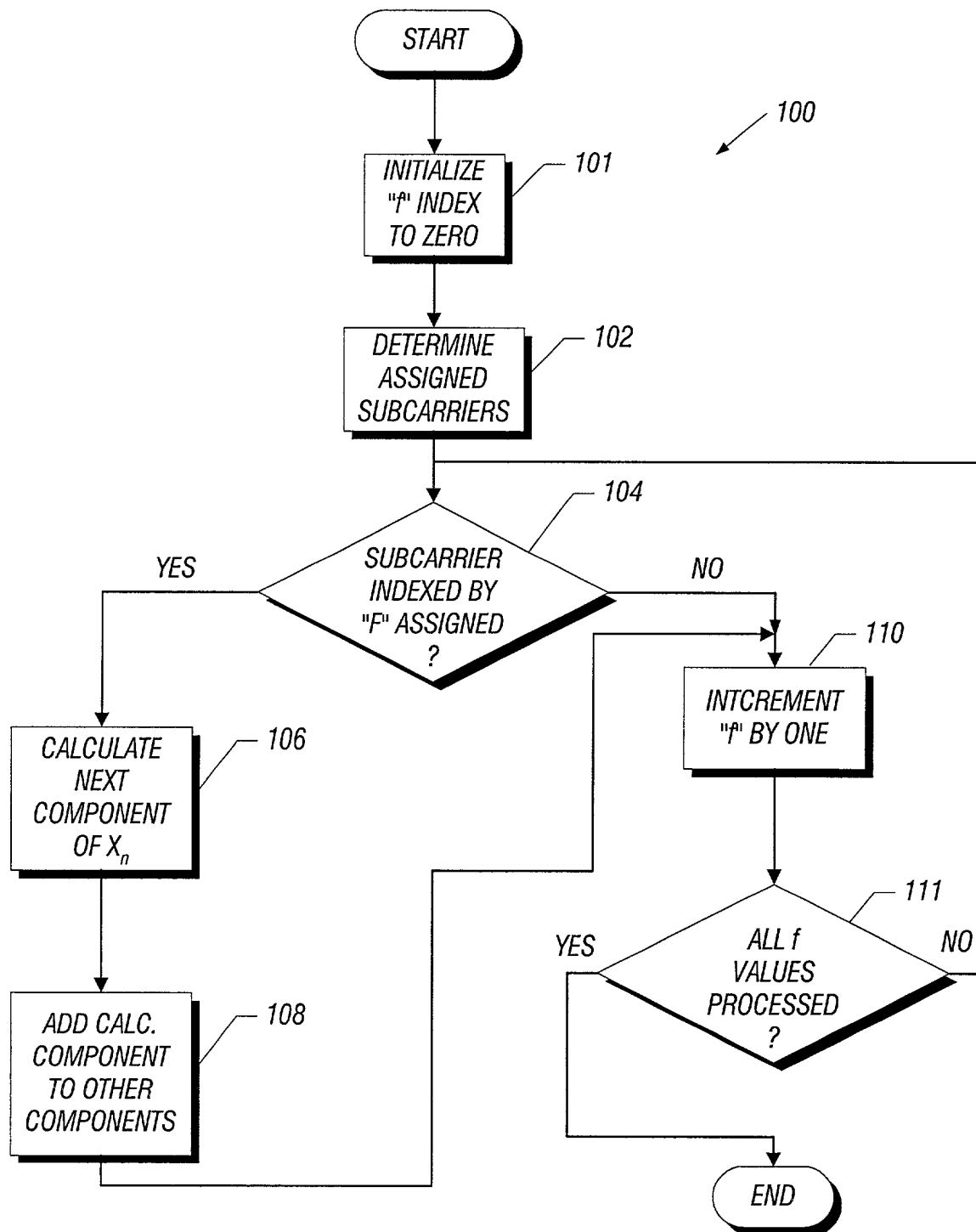
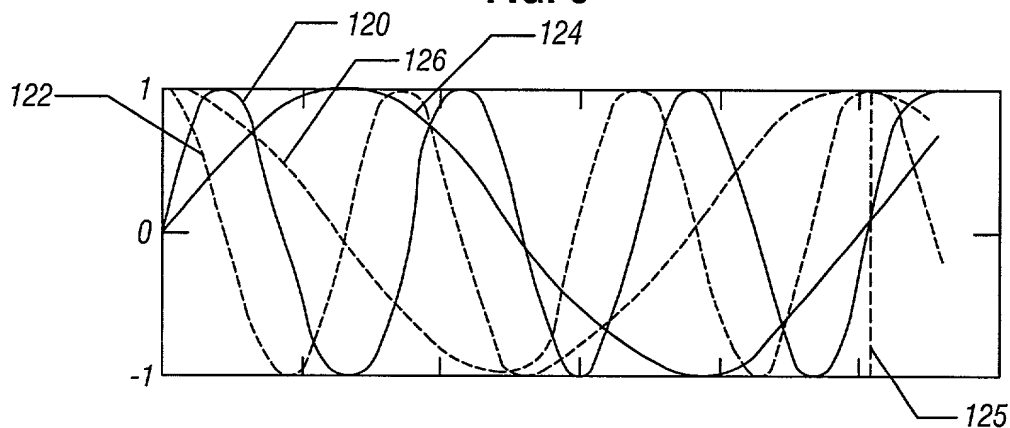


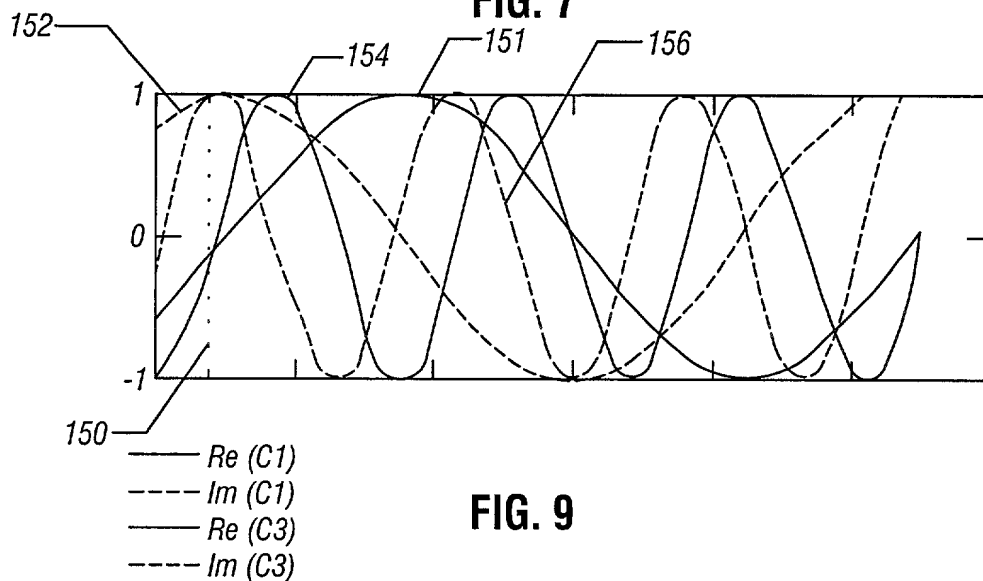
FIG. 5

| TOTAL NO. OF SUBCARRIERS (N) | PROCESSING REQUIRED FOR FFT<br>$N \log_2(N)$ | EQUIVALENT SUBCARRIERS USING<br>DFT |
|------------------------------|--|-------------------------------------|
| 16                           | 64   | 4                                   |
| 32                           | 160  | 5                                   |
| 64                           | 384  | 6                                   |
| 128                          | 896  | 7                                   |
| 256                          | 2048   | 8                                   |
| 512                          | 4608   | 9                                   |
| 1024                         | 10240  | 10                                  |
| 2048                         | 22530  | 11                                  |
| 4096                         | 49150  | 12                                  |

**FIG. 6**

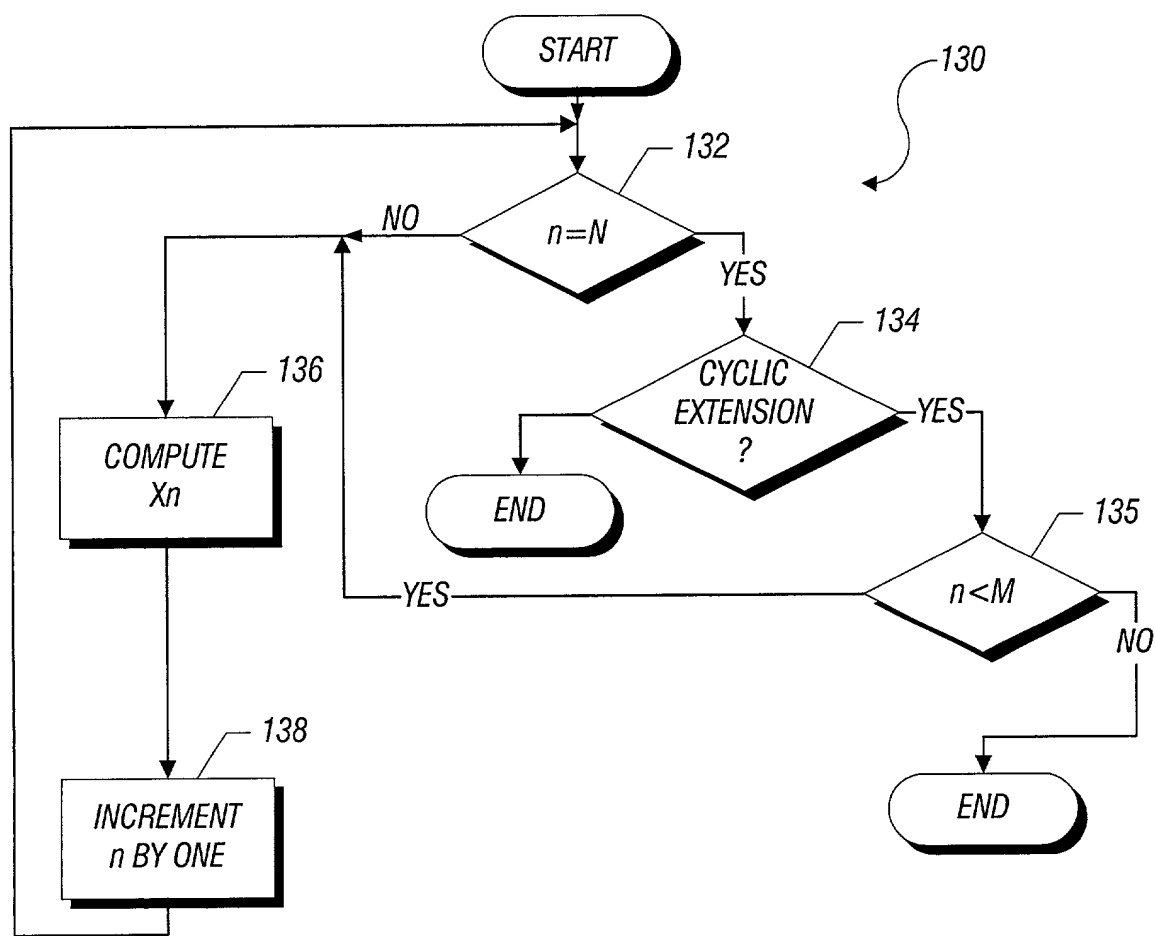


**FIG. 7**

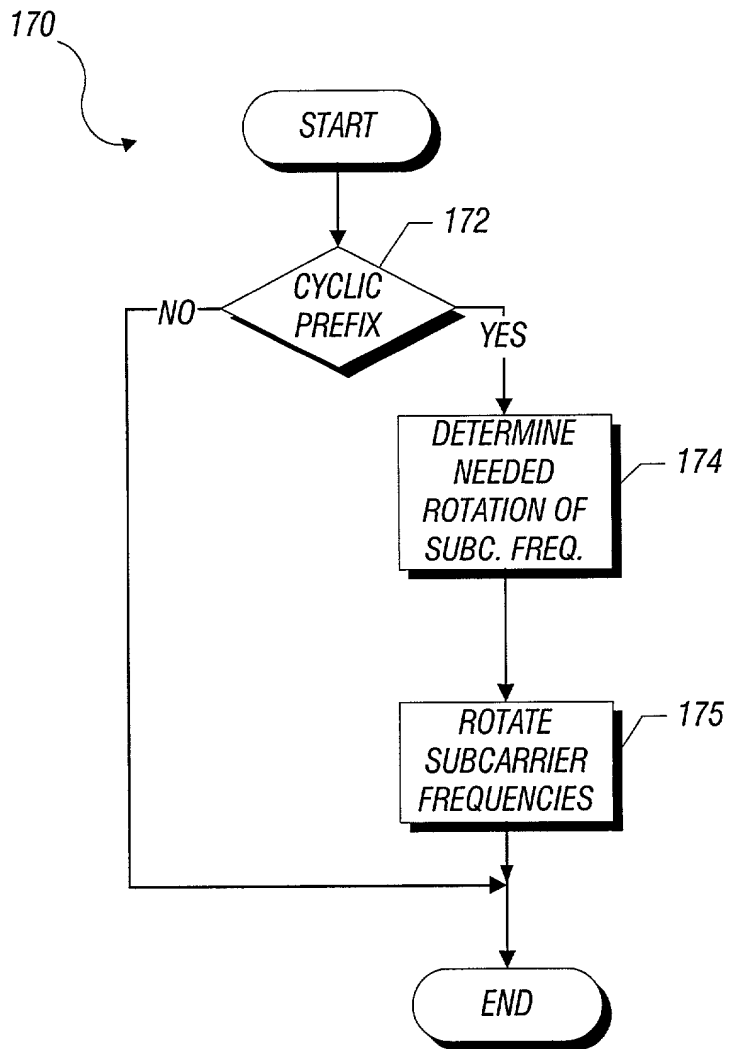


**FIG. 9**

150 ———  $Re(C1)$   
 ———  $Im(C1)$   
 ———  $Re(C3)$   
 ———  $Im(C3)$



**FIG. 8**



**FIG. 10**

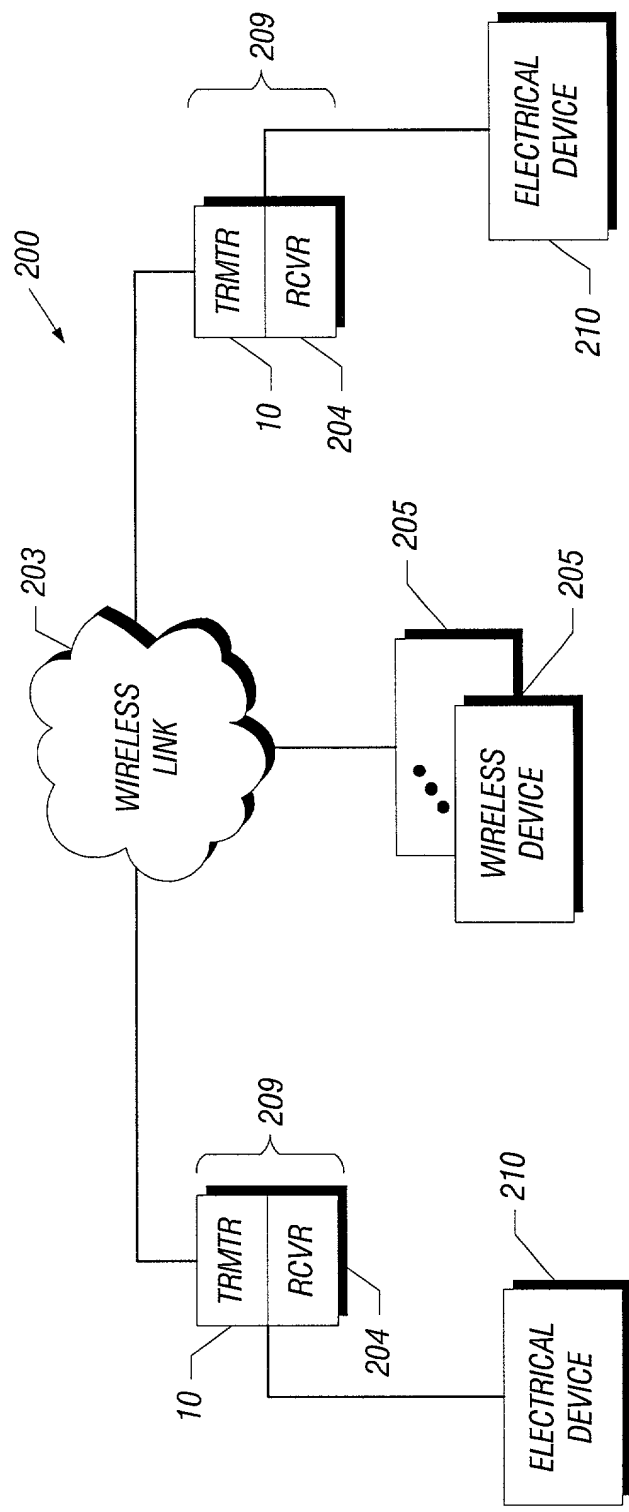


FIG. 11